City of Sunnyvale

Ten Year Project Costs

by Project Category and Type

Project Number	Project Name	Prior Years Actual	Revised Budget 2003-04	Plan 2004-05	Plan 2005-06	Plan 2006-07	Plan 2007-08	Plan 2008-09	Plan 2009-10	Plan 2010-11	Plan 2011-12	Plan 2012-13	Plan 2013-14	Ten Year Plan Total	**Project Grand Total**
Category:	**Special**														
Type:	**Water**														
823360	Ultra Low Flow Toilet (ULFT) Rebate Project	265,158	34,842	0	0	0	0	0	0	0	0	0	0	0	300,000
823890	Water Infrastructure Vulnerability Security Assessment Plan	69,029	45,971	0	0	0	0	0	0	0	0	0	0	0	115,000
824280	Leak Detection Program	0	31,939	4,072	4,154	4,237	4,322	4,408	4,496	4,586	4,678	4,771	4,867	44,591	76,530
824290	Water Cost of Service Study	0	0	81,603	0	0	0	0	27,313	0	0	0	0	108,916	108,916
824730	Water System Infrastructure Planning	0	0	51,565	52,596	53,649	54,722	55,817	56,933	58,071	59,232	60,418	61,625	564,628	564,628
824810	Downtown Water Line Engineering Study	0	0	10,000	0	0	0	0	0	0	0	0	0	10,000	10,000
Total		334,187	112,752	147,240	56,750	57,886	59,044	60,225	88,742	62,657	63,910	65,189	66,492	728,135	1,175,074

Project Information Sheet

Project: 823360 Ultra Low Flow Toilet (ULFT) Rebate Project

Category:	Special	Type:	Water	Department:	Public Works
Origination Year:	2001-02	Phase:	Implementation	Project Manager:	Jim Craig
Planned Completion Year:	2003-04	% Complete:	50	Project Coordinator:	Lisa Kemmer
Origin:	Staff			Interdependencies:	none
Element:	3 Environmental Management			Goal:	3.3D
Sub-Element:	3.1 Water Resources			Neighborhood:	City Wide
Fund:	455 Utilities			Sub-Fund:	100 Water Supply and Distribution

Statement of Need

The Ultra Low Flow Toilets (ULFT) Rebate Project is part of a requirement under the California Urban Water Conservation Council's Best Management Practices (BMP 14) and in accordance with the development of water conservation programs under the City of Sunnyvale's Urban Water Management Plan 2000. The intent of this project is to provide residents of Sunnyvale with a direct rebate for purchasing and installing the new 1.6 gallons per flush toilets to reduce water consumption. Half of the rebate will be funded by this project and the balance will be matched by the Santa Clara Valley Water District's Water Conservation Program. Although this program is not yet mandated by the State it will show the City of Sunnyvale's intentions for promoting real water conservation and open the door for future funding of such programs through grants and low-interest loan programs offered by the Department of Water Resources and the U.S. Bureau of Reclamation.

Service Level

no service level effect

Issues

none

Project Financial Summary

Financial Data	Prior Years Actual	Revised Budget 2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	10 Year Budget	Grand Total
Project Costs	265,158	34,842	0	0	0	0	0	0	0	0	0	0	0	300,000
Revenues														
Total	0	0											0	0
Transfers-In														
Total	0	0											0	0
Operating Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project Information Sheet

Project: 823890 Water Infrastructure Vulnerability Security Assessment Plan

Category:	Special	Type:	Water	Department:	Public Works
Origination Year:	2002-03	Phase:	Planning	Project Manager:	Jim Craig
Planned Completion Year:	2003-04	% Complete:	n/a	Project Coordinator:	Lisa Kemmer
Origin:	Staff			Interdependencies:	none
Element:	3 Environmental Management			Goal:	3.1B, 3.1C, & 4.1A
Sub-Element:	3.1 Water Resources			Neighborhood:	City Wide
Fund:	455 Utilities			Sub-Fund:	100 Water Supply and Distribution

Statement of Need

Following the events of September 11, the United States Environmental Protection Agency (USEPA) received a supplemental appropriation from Congress to improve the safety and security of the water supply of the Nation. A grant program was established to assist water utilities in responding to the threat of terrorist attacks and improving the security of water utility infrastructure and operations. Priority activities to be funded by these grants include: (1) Development of a Vulnerability Assessment. This is the highest priority activity under the grant program, since it is the first step in understanding how and where a water utility can be damaged by a terrorist attack. (2) Development of an Emergency Operations Plan to deal with the threats identified in the Vulnerability Assessment. (3) Planning and designing projects to enhance the water utility's system security. The City applied for and was successful in receiving a grant of $115,000 from USEPA to conduct the Vulnerability Assessment and to update our Emergency Operations Plan. The City is now requesting proposals from qualified consultants to assist the City in the completion of these tasks.

Service Level

none

Issues

none

Project Financial Summary

Financial Data	Prior Years Actual	Revised Budget 2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	10 Year Budget	Grand Total
Project Costs	69,029	45,971	0	0	0	0	0	0	0	0	0	0	0	115,000
Revenues														
Total	69,029	45,971											0	115,000
Transfers-In														
Total	0	0											0	0
Operating Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project Information Sheet

Project: 824280 Leak Detection Program

Category:	Special	Type:	Water	Department:	Public Works
Origination Year:	2003-04	Phase:	Planning	Project Manager:	Jim Craig
Planned Completion Year:	Ongoing	% Complete:	0	Project Coordinator:	Lisa Kemmer
Origin:	Staff			Interdependencies:	Finance
Element:	3 Environmental Management			Goal:	3.1D.1 & 3.1G.4
Sub-Element:	3.1 Water Resources			Neighborhood:	City Wide
Fund:	455 Utilities			Sub-Fund:	100 Water Supply and Distribution

Statement of Need

As recommended by the California Urban Water Conservation Council and as identified in the City's adopted 2000 Urban Water Management Plan as Best Management Practice #3, leak detection and system water audits are to be performed every three years following with an annual prescreening system audit. Any water loss due to leakage, theft, under-billing of customers, faulty control systems, or for any other reason represents revenue losses to the City. Follow up actions when leaks are located may include repairing leaky pipes and valves, replacement of water mains with a history of serious leaks, annual exercising of valves, and a corrosion control procedure (i.e. cathodic protection program). The primary benefit of early leak detection is catching a leak before it becomes a larger problem, resulting in more water lost. Leak repair also keeps leaks from deteriorating into large-scale leaks that can lead to system failures causing emergency conditions and compromising public safety. The City would benefit by decreased costs of large repairs from water main breaks, decreased capital costs for production, transport, storage, treatment, distribution, and wastewater treatment, as well as decreased costs for O & M, energy, chemicals, treatment, and labor (overtime).

Service Level

none

Issues

none

Project Financial Summary

Financial Data	Prior Years Actual	Revised Budget 2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	10 Year Budget	Grand Total
Project Costs	0	31,939	4,072	4,154	4,237	4,322	4,408	4,496	4,586	4,678	4,771	4,867	44,591	76,530
Revenues														
Total	0	0											0	0
Transfers-In														
Utilities Fund - Water			4,072	4,154	4,237	4,322	4,408	4,496	4,586	4,678	4,771	4,867		
Total	0	0											44,591	44,591
Operating Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project Information Sheet

Project: 824290 Water Cost of Service Study

Category:	Special	Type:	Water	Department:	Finance
Origination Year:	2003-04	Phase:	Ongoing	Project Manager:	Tim Kirby
Planned Completion Year:	Ongoing	% Complete:	n/a	Project Coordinator:	Jim Craig
Origin:	Staff			Interdependencies:	Public Works
Element:	3 Environmental Management			Goal:	3.1F
Sub-Element:	3.1 Water Resources			Neighborhood:	City Wide
Fund:	455 Utilities			Sub-Fund:	100 Water Supply and Distribution

Statement of Need

Every five years the Utilities Division in the Dept of Finance intends to perform a cost of service study on the water system to reallocate the costs of the City's water services among the various customer classes based on their use of each service. Staff will work with a consultant to develop a cost of service model and populate the model with current data. The study generates a cost of service for each customer class and recommends adjustments to the rate structure to ensure costs are recovered on an equitable basis from the different customer classes. This type of study has not been performed for the water system in many years. The initial project cost will be high, with future years being lower as a contractor will be able to work with an existing model.

Service Level

none

Issues

none

Project Financial Summary

Financial Data	Prior Years Actual	Revised Budget 2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	10 Year Budget	Grand Total
Project Costs	0	0	81,603	0	0	0	0	27,313	0	0	0	0	108,916	108,916
Revenues														
Total	0	0											0	0
Transfers-In														
Utilities Fund - Water			81,603	0	0	0	0	27,314	0	0	0	0		
Total	0	0											108,917	108,917
Operating Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project Information Sheet

Project: 824730 Water System Infrastructure Planning

Category:	Special	Type:	Water	Department:	Public Works
Origination Year:	2003-04	Phase:	Ongoing	Project Manager:	Jim Craig
Planned Completion Year:	Ongoing	% Complete:	n/a	Project Coordinator:	none
Origin:	Staff			Interdependencies:	none
Element:	3 Environmental Management			Goal:	3.1A
Sub-Element:	3.1 Water Resources			Neighborhood:	City Wide
Fund:	455 Utilities			Sub-Fund:	100 Water Supply and Distribution

Statement of Need

Project provides funding and hours to manage ongoing and future water infrastructure management. This project includes funds for professional engineering services, materials, and project management hours.

Service Level

none

Issues

none

Project Financial Summary

Financial Data	Prior Years Actual	Revised Budget 2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	10 Year Budget	Grand Total
Project Costs	0	0	51,565	52,596	53,649	54,722	55,817	56,933	58,071	59,232	60,418	61,625	564,628	564,628
Revenues														
Total	0	0											0	0
Transfers-In														
Utilities Fund - Water			51,566	52,597	53,649	54,722	55,816	56,933	58,071	59,233	60,417	61,626		
Total	0	0											564,630	564,630
Operating Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project Information Sheet

Project: 824810 Downtown Water Line Engineering Study

Category:	Special	Type:	Water	Department:	Public Works
Origination Year:	2003-04	Phase:	Planning	Project Manager:	Hira Raina
Planned Completion Year:	Ongoing	% Complete:	n/a	Project Coordinator:	none
Origin:	Staff			Interdependencies:	none
Element:	3 Environmental Management			Goal:	3.1C
Sub-Element:	3.1 Water Resources			Neighborhood:	City Wide
Fund:	455 Utilities			Sub-Fund:	100 Water Supply and Distribution

Statement of Need

This project will provide funding for a study to determine condition and appropriate line size to service new Downtown redevelopment and surrounding area.

Service Level

The project will determine requirements to service adequately the new development in the Downtown area.

Issues

none

Project Financial Summary

Financial Data	Prior Years Actual	Revised Budget 2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	10 Year Budget	Grand Total
Project Costs	0	0	10,000	0	0	0	0	0	0	0	0	0	10,000	10,000
Revenues														
Total	0	0											0	0
Transfers-In														
Utilities Fund - Water			10,000	0	0	0	0	0	0	0	0	0		
Total	0	0											10,000	10,000
Operating Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0